ME...The

1 ***4.4**4*** METITIE*

***4.4**4**

For a product, which to the exosomes that they

***2 for the desired and never to a state and extraction the desired and instrument of a state and extraction the desired and .4 AN WEEL 1. A .E. IN NUMBER: I UMBON NUMBER: 111181 ATTH FI EMPL MONTHER LANCTWORK ELTO LE MENCE ENTRE MONTHE ENTRE WELFE 14 ANZWER (SE). A. EUSILN NUMBER: D. COMBINI NUMBER: TITLE: MELLINE] #46,144 6.53 96,144 6.53 MEDILINE folders brainer of established nurine timers define a novel collection vaccine; sentral, collectived exosomes.

AUTHUR: Trivoide 1: Permaint A: 1 over A: Wifera in Flament in Tenna 1: Permaint A: 1 over A: Wifera in Flament in Tenna 1: Permaint I: Setumber 1: Pepping 1: Amount I: Permaint I: Pepping 1: Amount I: Permaint I: Pepping 1: Amount I: Permaint I: Pepping 1: Amount I: Pepping 1: MATCHE MEDI INE, 1906 May 4: 5 5 94 - 20.

The INTER MEDI INE, 1906 May 4: 5 5 94 - 20.

The Exament: Trivoide I: Peping 1: Permaint I: Peping 1: Peping 1:

. . .

1000

National Library of Medicine: IGM Full Record Screen

i



Next Record

<u>a</u> Details of Search

Return to Results

Return to Search Screen Previous Record

⊻

Related Articles

External Links

TITLE:

B lymphocytes secrete antigen-presenting vesicles.

AUTHORS:

Raposo G; Nijman HW; Stoorvogel W; Liejendekker R;

Harding CV; Melief CJ; Geuze HJ

AUTHOR AFFILIATION:

Department of Cell Biology, Faculty of Medicine and Institute for Biomembranes, Utrecht University, The

Netherlands.

SOURCE:

J Exp Med 1996 Mar 1;183(3):1161-72

CITATION IDS:

PMID: 8642258 UI: 96228337

ABSTRACT:

Antigen-presenting cells contain a specialized late endocytic compartment, MIIC (major histocompatibility complex [MHC] class II-enriched compartment), that harbors newly synthesized MHC class II molecules in transit to the plasma membrane. MIICs have a limiting membrane enclosing characteristic internal membrane vesicles. Both the limiting membrane and the internal vesicles contain MHC class II. In this study on B lymphoblastoid cells, we demonstrate by immunoelectron microscopy that the limiting membrane of MIICs can fuse directly with the plasma membrane, resulting in release from the cells of internal MHC class II-containing vesicles. These secreted vesicles, named exosomes, were isolated from the cell culture media by differential centrifugation followed by flotation on sucrose density gradients. The overall surface protein composition of exosomes differed significantly from that of the plasma membrane. Exosome-bound MHC class II was in a compact, peptide-bound conformation. Metabolically labeled MHC class II was released into the extracellular medium with relatively slow kinetics, 10 +/- 4% in 24 h, indicating that direct fusion of MIICs with the plasma membrane is not the major pathway by which MHC class II reaches the plasma membrane. Exosomes derived from both human and murine B lymphocytes induced antigen-specific MHC class II-restricted T cell responses. These data suggest a role for exosomes in antigen presentation in vivo.